Claims

- An active keyed locking system for a vehicle comprising: a keyed actuated device; a position sensor proximate to isaid keyed actuated device and generating a position signal indicative of position of said keyed actuated device; and a controller electrically coupled to said position sensor and enabling at least one vehicle component in response to said position signal.
- [c2] A system as in claim 1 wherein said keyed actuated device is a lock assembly.
- [03] A system as in claim 1 wherein said keyed actuated device is a key.
- [c4] A system as in claim 3 wherein said key comprises a signal generator generating a transmission signal.
- [c5] A system as in claim 3 wherein said key comprises a field-altering device.
- [c6] A system as in claim 3 wherein said key comprises a magnetic device.

- [c7] A system as in claim 3 wherein said key comprises: a coil; and a transponder coupled to said coil and generating a transmission signal.
- [08] A system as in claim 3 wherein said key generates an authorization signal, said controller enabling at least one vehicle component in response to said authorization signal.
- [c9] A system as in claim 1 wherein said position sensor is selected from at least one of a series of magnets, a coil, a potentiometer, an encoder, an optical sensor, an infrared sensor, a hall effect sensor, a rotary variable differential transformer, a rotary variable inductance transducer, an angular position sensor, or a resolver.
- [c10] A system as in claim 1 wherein said position sensor is coupled within a base station.
- [c11] A system as in claim 1 wherein said controller enables a vehicle component selected from at least one of a vehicle accessory, an ignition, a door lock, and a vehicle system in response to said position signal.
- [c12] A system as in claim 1 further comprising a recognition device recognizing a key and generating a recognition signal wherein said controller enables the active keyed

- locking system in response to said recognition signal.
- [c13] A system as in claim 1 wherein said keyed actuated device is a lock assembly, said lock assembly comprising a key antenna.
- [c14] An ignition enabling system for a vehicle comprising:
 a key having a transponder;
 a lock assembly;
 a position sensoh proximate to said lock assembly and
 generating a position signal indicative of a position of
 the key; and
 a controller electrically coupled to said position sensor
 and enabling at least one vehicle component in response
 to said position signal.
- [c15] A method of enabling at least one vehicle component through use of an active keyed locking system comprising:
 actuating a keyed actuated device;
 determining position of said keyed actuated device and generating a position signal; and enabling the at least one vehicle component in response to said position signal.
- [c16] A method as in claim 15 further comprising: recognizing a key and generating a recognition signal;

and enabling an active keyed locking system in response to said recognition signal.

- [c17] A method as in claim 16 further comprising activating a base station in response to said key recognition.
- [c18] A method as in claim 15 further comprising:
 generating a first authorization signal;
 generating a second authorization signal in response to
 said first authorization signal;
 verifying said second authorization signal; and
 generating said position signal in response to said verification.
- [c19] A method as in claim 15 wherein determining position of said keyed actuated device comprises:
 generating at least one base signal;
 altering said at least one base signal via actuation of said keyed actuated device; and
 generating said position signal in response to said alteration of said at least one base signal.
- [c20] A method as in claim 19 wherein said at least one base signal is modulated using a modulation technique selected from at least one of amplitude modulation, frequency modulation, and phase modulation.